## PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 3087.00017	FOR FURTHER ACTION as well as,	see Form PCT/ISA/220 , where applicable, item 5 below.		
International application No. PCT/US05/08973	International filing date (day/month/year 18 March 2005 (18.03.2005)	(Earliest) Priority Date (day/month/year) 19 March 2004 (19.03.2004)		
Applicant DETROIT R&D, INC.				
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of				
5. With regard to the abstract, the text is approved as submething the text has been established.	d seconding to Pule 38 2(h) by this Author	ority as it appears in Box No. IV. The applicant		
may, within one month from	n the date of mailing of this international s	search report, submit comments to and reasons,		
a. the figure of the drawings to be	published with the abstract is Figure No.	<del></del>		
as suggested by the	e applicant.  Authority, because the applicant failed to	suggest a figure.		
	Authority, because this figure better chara			
<del></del>	published with the abstract.			
b. onne of the figures is to be published with the abstract.				

Form PCT/ISA/210 (first sheet) (January 2004)

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/08973

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This internati	onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
.Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This Internati Please See Co	onal Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. Remark on	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-7  Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

#### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/08973

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C12M 1/34, 3/00  US CL : 435/287.2, 435/7.1, 436/518, 422/68.1  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 435/287.2, 435/7.1, 436/518, 422/68.1  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched				
Documentation searched other than minimum documentation to the extent that such documents are mentaged in the notes searched				
Electronic dat	ta base consulted during the international search (name	e of data base and, where practicable, search terms used)		
C. DOC	JMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where ap	ppropriate, of the relevant passages Relevant to claim No.		
Y	US 2002/0072121 A1 (LAM et al.) 13 June 2002 (13. 9-13	3.06.2002), p12, paragraph [0138], lines 4		
Y	US 6,130,077 (YUE et al.) 10 Oct 2000 (10.10.2000)	), column 22, lines 30-40 and column 31, 2-4		
Y	lines 22-40 US 2002/0127623 A1 (MINSHULL et al.) 12 Sept 20	2002 (12.09.2002), p15, paragraph [0161]		
x	& [0163], p21, paragraph [0226] & p32, paragraph [0 US 2002/0055186 A1 (BARRY et al.) 9 May 2002 (0	09.05.2002), p9, paragraph [0084], p10, 1, 5, and 7		
 Y	paragraph [0104]-p11, paragraph [105]	2-4 and 6		
Further	documents are listed in the continuation of Box C.	See patent family annex.		
• s	pecial categories of cited documents:	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the		
particular	t defining the general state of the art which is not considered to be of relevance plication or patent published on or after the international filing date	principle or theory underlying the invention  "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step		
"I" documen	t which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as	when the document is taken alone  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being		
"O" documen	t referring to an oral disclosure, use, exhibition or other means	obvious to a person skilled in the art		
"P" documen	t published prior to the international filing date but later than the late claimed	"&" document member of the same patent family		
•	ctual completion of the international search	Date of mailing of the international search report  1 2 JUL 2005		
23 June 2005 (23.06.2005)				
Ma Cor P. C	ailing address of the ISA/US  ill Stop PCT, Attn: ISA/US  mmissioner for Patents  D. Box 1450	Authorized officer Unsu Jung  Telephone No. 571-272-1600		
Ale	exandria, Virginia 22313-1450 o. (703) 305-3230	Total Total Training		

INTERNATIONAL SEARCH REPORT	PCT/US05/08973		
BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING Group I, claim(s) 1-7, drawn to an antibody microarray screen comprising a substrate, monoclonal and polyclonal antibodies. Group II, claim(s) 8-11, drawn to an antibody microarray screen comprising a substrate and polyclonal antibodies. Group III, claim(s) 12-15, drawn to an antibody microarray screen comprising a substrate and monoclonal antibodies. Group IV, claim(s) 16 and 17, drawn to a method of manufacturing an antibody microarray. Group V, claim(s) 18-20, drawn to an internal control molecule. Group VII, claim(s) 21, drawn to a method of determining optimal spotting concentrations of IgG. Group VIII, claim(s) 22-25, drawn to a method to increase a detectable signal with microarray analysis using an intensive molecular signal. Group VIII, claim(s) 26, drawn to a method to increase using conjugated dye and a reporter molecule to a protein. Group IX, claim(s) 27-30, drawn to a method of producing an antibody microarrays.  Groups I-IX has the special technical feature of an antibody microarray.  The special technical feature in all groups is the antibody microarray. This element cannot be a special technical feature under PCT Rule 13.2 because the element is shown in the prior art. U.S. PG Pub. No. US 2002/0055186 (Barry et al., Published May 9, 2002) teaches the method of making and using antibody microarray to detect peptides (p10, paragraph [0104]).			

International application No.